
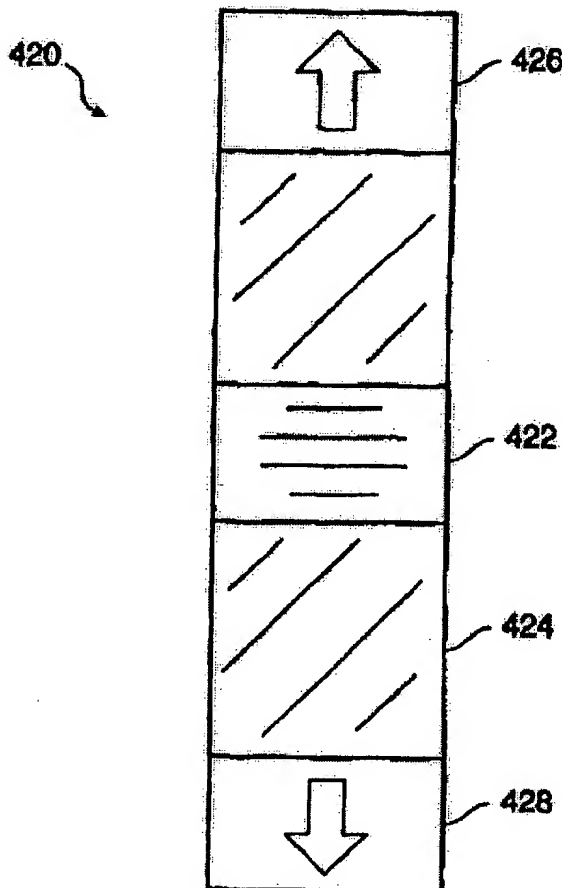


PRESSURE SENSITIVE SCROLLBAR FEATURE

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Inventor: ALLEN TIMOTHY P; GILLESPIE DAVID; FERRUCCI AARON T
Applicant: SYNAPTICS INC (US)
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- **International:** G06F3/033
- **European:** G06F3/033D2, G06F3/033A1S2
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Priority number(s): US19950558114 19951113

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A proximity sensor system includes a sensor matrix array having a characteristic capacitance on horizontal and vertical conductors connected to sensor pads. The capacitance changes as a function of the proximity of an object to the sensor matrix. The change in capacitance of each node in both the X and Y directions of the matrix due to the approach of an object is converted to a set of voltages in the X and Y directions. These voltages are processed by circuitry to develop electrical signals representative of the centroid of the profile of the object, i.e., its position in the X and Y dimensions. Noise reduction and background level setting techniques inherently available in the architecture are employed. Pressure information is used to modify the scrolling speed.



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